CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 75315

DRAFT FINAL PRINTED LABELING

Final Printed Insert Labeling

AMIODARONE HYDROCHLORIDE TABLETS, 200 MG Rx only

BESCRIPTION
Amodarone hydrochloride is a member of a new class of anhardythmic drugs with predominant Class III (Vaughan Wikitams' classification) effects, available for oral administration as yellow, socied babers. Each tablet for oral administration continut 200 mg of amodarone hydrochloride. In addition, each bable continus the following nature impredens condicial sizion disposar operations the following nature impredens condicial sizion disposar disposar operations and back of the monohydrate, magnesium steasiste, povidione, and D&C Vellow #10 Aluminium Lake.

Amodarone hydrochloride is a beneficially related to any other available antiar flythmic drug.

The structural formula is as follows.

Amiodarene hydrochlonde is a while to cream-colored crystalline powder. It is slightly soluble in water, soluble in alcohol, and freely soluble in chlordorm. It contains 37 3% iodine by weight.

CLINICAL PHARMACOLOGY

Electrophysiology/Mechanisms of Action

In annual, annuclarone hydrochloride is effective in the prevention or suppression of experimentally induced arrhythmias. The antiarrhythmic effect of anniolation may be due to all least two major properties: 1) a prolongation of the myocardial cell-action potential duration and estractory period and 21 monominestive cs and 6 adtenues; in the same and an estimate of the myocardial cell-action potential duration and estractory period or the action potential. The estractory period is prolonged in all cardiac bases Anniolation encreases the cardiac relactory period without influencing retaining membrane potential except in automatic cells where the sloge of the propolential is reduced generally reducing automaticity. These electrophysiologic effects are reflected in a decreased sinux rate of 15 to 20%, moreased PR and off intervals of both of the service of the cells o

sinus bradycardia of sinus arrest and heart block. On rare occasions, OT prolongation has been associated with worsening of arthythmia (see "MARINIGES").

Hemodynamics
in animal tudies and after intravenous administration in main, amiodatone reliaises vascular smooth muscle, reduces peripheral vascular resistance (afterload), and slightly increases credice meks. After onal diseage, however, amiodatone produces no significant during in literatures and increase control of the control of the main animal tudies and after intravenous diseage in main, amiodatone in which ventrolaise pection fraction (LVF), even in palents with deperiend (LVF). After acidin intravenous diseage in main, amiodatone in main, amiodatone in a main diseage intravenous diseage in main, amiodatone in main, amiodatone in superioristic pection and forgative mortificial fractions are affaired to a finite peripheral vascular and forgative mortificial fractions are affaired to a finite peripheral vascular and forgative mortificial fractions are affaired to a finite peripheral vascular and forgative mortificial fractions. An administration of the finite peripheral vascular and forgative mortificial fractions are affaired to a finite peripheral vascular and forgative mortificial fractions. An administration of the finite peripheral vascular and forgative mortificial fractions. An administration of the finite fraction may occur in the finite peripheral vascular and forgative finite fractions. An administration of the finite fraction of the finite fractions and finite fractions are accommendated and forgative fractions. An administration of the finite fractions and finite fractions and finite fractions and finite fractions. An administration of the finite fraction may occur in the finite fraction of the finite fractions and finite fractions. An administration of the finite fraction in variors of the finite fractions and finite fractions. An administration of administration in validation in validation of the finite fractions and finite fractions. An ad

these been detected in breast mil.

Amodation of shapity protein-bound (approximately 96.5). The parent drug and its metabolite business and the parent drug and its metabolite amodation is highly protein-bound (approximately 96.5). Amodation is highly protein-bound (approximately 96.5). Although declorophyrologic, effects, caused as proleographic of OTc. can be seen within hours after a parentiral dose of amodatione hydrocologic, effects, caused as properties of the parent drugs and the parent and parent and approximately approximately associated as susself. Here may be a continued increase in effect for longer periods still. There is evidence that the time to effect is shorter when a loading dose regimen is used.

Consistent with the slow rate of elimination, antarrhythmic effects persist for weeks or months after amodatione they discolorished to discontinued, but the time to recurrence is variable and unpredictable. In general, when the drug is resumed after recurrence of the aritythmia, control is established relatively rapidly compared to the initial resource. Pharmacologyamistic is established relatively rapidly compared to the initial resource is caused to the size of the size of the control of the initial resource.

depleted at the time of recurrence.

Pharmacodynamic or no well-established relationship of plasma concentration to effectiveness, but it does appear that concentrations much below Impd. are often intellective and that levels above 2.5 mgd. are generally not needed. Within individuals does reductions and ensuing decreased plasma concentrations can result in loss of arithythmia control. Plasma-concentration measurements can be used to identify published whose levels are unusually low, and who might benefit form a does encrease, or unusually high, and who might have designe reduction in the hope of mismatumy side effects. Some observations have suggested a plasma concentration, dose, or deseduration retuposity gastromisestical and central nervous system effects. However, there enzyme elevations, comeal deposits and facial pigmentation revolutions and central nervous system effects.

Mindexim Effectiveness

Predicting the effectiveness of any antarchythmic agent in long-term prevention of recurrent ventricular bethyrardia and ventricular incompleting programmers recommending use of ambulatory monitoring, programmers.

retiponship for side effects such as palmonary Blooss, liver enzyme devalories, corneal deposits and facial pigmentation, peripheral neuropathy, gatomiseation allocard in errorus system effects.

Monatoring Effectiveness of any antarchythmic agent in long-term prevention of recurrent ventricular biordistion is difficult and controversial, with highly qualified investigators recommending use of ambulatory monitoring, programmed electrical stimulation with visuous semilation recommending use of ambulatory monitoring, programmed electrical stimulation with visuous semilation recommending uses of ambulatory monitoring, programmed electrical stimulation of the series are stated on these to assess effectiveness. but there is a reasonable constensus on some aspects.

1.1 a patient with a history of cardiac arrest does not manifest a homolynamically usefulse arritymina during electrocardiographic mentioning prior to treatment, assessment of the effectiveness of almodatrone requires some proviocable arritymina during electrocardiographic mentioning prior to treatment, assessment of the effectiveness of almodatrone requires some proviocable arritymina during electrocardiographic mentioning prior to treatment, assessment of the effectiveness of almodatrone requires some proviocable arritymina soprotate-cesty is not settled, but there are reasones to consider PSC or other proviocation in such patients. In the fraction of patients whose PSC sinducible arritymina can be made noninducible by a amodatrone citerial, the organisms of the effectiveness of

INDICATIONS AND USAGE

instructions and coases. Because of its Networkering side effects and the substantial management difficulties associated with its use (see "WARHINGS" below) amoustone hydrochonode subficialed only for the treatment of the following documented, life-threatening recurrent venticular airhythmus when these have not responded to documented adequate doses of other available antiarrhythmics or when alternative agents could not be tolerated.

survival

Amodative should be used only by physicians familian with and with access to (directly or through referral) the use of all available
modathes for freating recurrent life-threatening ventincular aritythmias, and who have access to appropriate monitoring facilities,
including in-hospital and ambifatory communos electrocardiographic monitoring and electrophysiologic techniques. Because of the
life-threatening nature of the arithythmias treated potential interactions with prior therapy, and potential exacerbation of the arithythmia,
initiation of therapy with amodations should be carried out in the hospital.

maker). Amindarone hydrochloride is contraindicated in patients with a known hypersensitivity to the drug.

ARMINGS

Amindation hydrochloride is intended for use only in patients with the indicated life-threatening arrhythmiss becazer its uses as accompanied by substantial lasicity.

Amindatione has several potentially (stal lasicities, the most important of which is patimenary tasting (hypersensitivity promominate or interthial/bender) postumentally in interthial/bender postumentally little has resulted in clinically manifest disease at rates as high as 10 fo 17%, in some series of patients with ventricular arrhythmize green doses around 400 mg/day, and as abnormal diffusion capacity without symptoms on any other higher percentage of patients. Pulmonary toxicity has been leaf al about 10%, of the time. Liver requy is common with amindatione, but in usually midd and evidenced only by abnormal forer enzymes. Over the diverse cover, however, and has been hat all about a have leaf as labour the arrhythmia, e.g., by making the arrhythmia lets; well follerated or more difficult to reverse. This has occurred in 2 to 5% of patients in vivous series, and/financen heart bodies or sinsis bragisteris has been read in 12 to 5%. All of these reverse should be manageable in the prose clinical setting in mest cases. Although the negency of such preamfythmic events when they occur.

Even in patients at high risk of arrhythmic death, in whom the toxicity of amindations is an acceptable risk. amindations.

does not appear greater with amiodanone than with many other agents used in this position. The effects are prolonged when the force is a present position of the effects are prolonged or when the position of the property of

Mortality
In the National Heart, Lung and Blood Incitatis's Cardiac Arrhythmia Suppression Trial (EAST), a long-term, multi-centered,
randomized, double-blind theiry in patients with saymplamatic non-life-devalening ventricules arrhythmias who had had myrocerfall
infarctions more than six days but less than ho years permisesty, an excessive mortality or non-tails cardiac errest rate was sen
in patients bready with enchanies or liceciantles (EAST) (compared with that uses in patients assigned to matched place-to-related
wowsp (12/725). The servage duration of treatment with enchanide or flectimide in this study was ten mortful.
The applicability of these reveals to other populations (a.g., those without encent repressiral infarctions) or to amindarone
hydrochoride-treated patients is ensertain. While definitive controlled trials with emiodarons are in progress, pooled analysis of
small controlled studies in patients with treatment and issues (including portan) interction) have not shown excess
mortality in the emiodarone treated population.

Pulmonary Tactics
Amicdanone may cause a directal syndrome of cough and progressive dynane accompanied by functional radiographic; gallium-scan,
and pathological data consistent with pulmonary toxicity, the frequency of which vances from 2 to 7 % in most published reports, but is
as high as 10 to 17% in some reports. Therefore, when amindarone therapy is initiated, a basistee drest X ray and pulmonary-louction
lests, including officians capacity should be performed. The patient should return for a hotroy, physical exam and cheek X ray very
3 to 6 months.

supplies 10 to 17% in some report. Therefore, when amordance herapy is inhalted a baseline death X or and pollmonary hondors, and an another the properties of the properties

Worsened Arrhythmia
Amodatone, Be other anharchythmics, can cause senious exacerbation of the presenting arrhythmia, a risk that may be enhanced by
the presence of concomitant anharchythmics. Exacerbation has been reported in about 2 to 5% in most series, and has included new
ventiously behalves, molessari werenizate lachyrizatio, excreased resistance to curidoversion and polymorphic ventiously tachyrization
associated with 01 profologiation (Tonade de Pointes). In addition, amodazione has caused symptomatic bradycardia or sinus arrest
with suppression of escape foci in 2 fe 4% of palemis.

associated with OT prolongation (Torsade de Pointes). In addition, amodarone has caused symptomatic bradycardia or sinus arrest with suppression of escape foci in 2 de X-6 i palabent. Liver Injury
Elevations of hepatic entyme levels are seen frequently in patients exposed to amiodarone and in most cases are asymptomatic. If the increase exceeds three times normal, or doubles in a patient with an elevated backline, discontinuata not amiodarone or doubles most hought be considered. In a teri case in which hough his bese notice, the history has resembled that of alcoholic hepatits or carbonics. Hepatic failure has been a rine cause of distain in patients fleated with amiodarone.

Cases of optic neuroposity and/or optic neurolis, usually resulting in visual impairment, have been reported in patients treated with amiodarone. In some cases, visual impairment has progressed to permanent bindness. Optic neuropathy and/or neurolis ray and carbonic history of the drug has not been clearly established. It symptoms of visual impairment participation of the drug has not been clearly established. It symptoms of visual impairment has progressed to permanent bindness. Optic neuropathy and/or neurolis calls for evaluation of amiodarone therapy with amiodarone must be weighted against its beneficial symptoms of the rests and complications of antistrichymic therapy with amiodarone must be weighted against its benefits in patients whose laws are the issual optical arthydrimas. Regular optical-arim expansion, excellent patients benefits a patient swhose laws are the issual optical arthydrimas. Regular optical-arim expansion, excellent patients to benefit in a patient should be appraised to the minimum recommended maintenance does). Similar individual for patients and patients of the patient of the patients of the potential patient benefit and patient of the patient of the patients of the patient of the patient of the patient of the patient of the patien





the letus In general, amodations should be used during pregnancy only if the potential benefit to the mother justifies the unknown risk to the leter.

letus
PRE AUTIONS
Impairment of Viction
Optic Meuropathy and/or Neuritis
Cases of optic neuropathy and optic neuritis have been reported (see "WARNINGS")
Contral Microlegosis

Corneal Microdeposits

Conneal microdeposits appear in the majority of adults treated with amiodatione. They are usually discernible only by ski lamp examination but per rise to symptoms such as visual halos or bitured vision in as many as 10% of patients. Conneal microdeposits are reversible upon reduction of door or termination of treatment. Asymptomatic microdeposits are not a reason to reduce door of doconhous treatment (see "ADVERSE REACTIONS").

discontinue (restricted year exverse supervised to the development of peripheral neuropathy that may resolve bronc administration of oral amiodatione in rare instances may lead to the development of peripheral neuropathy that may resolve here amiodatione is discontinued but this resolution has been slow and incomplete.

Choine administration of roal amindations in one instances may heal to the development of peripheral heuropathy that may resolve when amindatione or discontinued but this resolution has been allow and incomplete. Photoreaskirring amindation has been allow and incomplete the proposed shall may occur. The risk may be increased in palents of his completion on these with excessive sun exposure, and may be related to carmulative does and duration of the rapy. If you discontinued the completion of these with excessive sun exposure, and may be related to carmulative does and duration of the rapy. If you discontinued the completion of these with excessive sun exposure, and may be related to carmulative does and duration of the rapy. If you discontinued the completion of the rapy of the proposed and the rapy. If you discontinued the completion of the rapy of the proposed and the rapy of the proposed and the rapy of the related to carmulative does and duration of the resolution of integration knowledge and the relation of the relation of the rapy of the relation of the relation

induced hypermyrousum. Assessment of the property of the prope

Liboratory Tests:
Evaluation in Net enzymes (SGOT and SGPT) can occur. Liver enzymes in palents on relatively high maintenance doses should be monitored on a regular basis. Persistent significant elevations in the liver enzymes on hepatomegally should alert the physician to consider inducing the maintenance dose of animodation the dyndrochronice of sciencomhuning therapy.

Amodance hydrochhoride alters the results of thyroid-hanction tests causing an increase in serum T4 and serum reverse T3 and a decience in serum T5 percht. Despite these biochemical changes, most placetic remain clinically euthyroid.

oreclare in serving in serving the properties of drug drug interactions with amodarone hydrochlonde have been explored formally, most of these Allhough only a small number of drug drug interactions with amodarone hydrochlonde have been explored formally, most of these have been exchain interaction. The potential for other interactions should be anticipated, particularly for drugs with potentially serious toracity, such as other antiarrhythmics. If such drugs are needed, their does should be reassessed and, where appropriate plasma

toncity, such as other antainty/thinics. It such drugs are needed their does should be reassessed and, where appropriate plasma concentration measured
in view of the long and viriable half-life of amodacione hydrochloride, potential for drug interactions exists not only with concomitant medication but also with drugs administered after discontinuation of amodacione hydrochloride.

Cyclogazine*
**Concomitant use of amodacione and cyclosporine has been reported to produce persistlently elevated plasma concentrations of cyclosporine resulting in elevated creations, despite reduction in dose of cyclosporine.

Geldingerine

Concomitant use of amodatione and cyclosporine has been reported to produce pertislently elevated plasma concentrations of cyclosporine resulting in elevated creatment elevate despite reduction in dose of cyclosporine.

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Concomitant use of amodation hydrocholoride to palantic thricial toxicity. On initiation of amodations hydrocholoride to palantic thricial toxicity. On initiation of amodations hydrocholoride to palantic thricial toxicity. On initiation of amodations hydrocholoride concentrations that may reach text. Inexts with resultant chinical toxicity. On initiation of amodations hydrocholoride the need for dispital intervals should be relevant and his does related by approximately 50% of discontineed. If digitals intervals toxicity is a state of the process of the process

potentiation of bridycardia, similar arrest, and in the community of the potential of the community of the c

Concomitant Drug	Interaction		Recommended Dose Reduction of
	Onset (days)	Magnitude	Concomitant Drug
Warfatin	3 to 4	Increases prothrombin time by 100%	↓ 1/3 to 1/2
Digoxin	1	Increases serum concentration by 70%	1 1/2
Quinkline	2	Increases serum concentration by 33%	1 1/3 to 1/2 (or discontinue)
Procamamide	47	Increases plasma concentration by 55%; NAPA* concentration by 33%	1 1/3 (or discontinue)

*NAPA = n-acetyl procainamide

Electrolyte Disturbances
Since aniarthy hims, drugs may be ineffective or may be anthythinogenic in patients will hypotalemitia any politacium or magnesium orthogenic patients of the confected before architecting amordatione therapy.

Carcinogenists of hypotagenists and programment of finishing amordatione therapy.

Amordanore hypotochloride included fertally of male and female rats at a dose level of 90 mg/kg/day (8 x highest recommended human

Amodarone hydrochloride reduced lestility of male and female rats at a dose level of 90 mg/hg/day (8 is highest accommended human maintenance dose).

Amodarone caused a statistically significant, doser-related increase in the incidence of thyroid humors, follocated another carcinomay in ast. The incidence of thyroid humors was greate; than control even at the flowest dose level of amodarone hydrochloride tested i.e. 5 mg/hg/day or approximately equal to ¹/₂ the highest recommended human maniferance dose. Multigeneity studies (Ames, micronoules) and hispopric tests) with amiodarone were negative.

Pregnancy, Pregnancy Calegory D

See: *WARKINGS.*

Laboy and Delivery

It is not function whether the use of amiodarone during labor or delivery has any immediate or delayed adverse effects. Preclinical studies in todents have not shown any effect of amiodarone on the durabon of gestabon or on parturition.

It is not nation minutes in independent of amindations on the duration of gestation or on particular states of the Nursing Mothers.

Ministry Mothers

Amindations is excerted in human milk, suggesting that breast-leeding could expose the nursing infant to a significant dose of the drug. Nursing offspring of facilities grass administered amindations have been shown to be less viable and have reduced body-weight grass. Therefore, when amindations therapy is indicated, the mother should be advised to deconstrue nursing.

Pediatric Use
The safety and effectiveness of amodarone hydrochlonde in pediatic patients have not been established.
AUPRISE REACTIONS
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AUPRISE REACTIONS
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AUPRISE REACTIONS
The safety large does not may be applicate the provided of the

Gastrominisma Naussa and venning.

The following side effects were each reported in 4 to 9% of patients:

Demarkologic Solar demailitis/pholosomishivity.

Heurologic Malaise and latigue; temorishoromal involuntary movements, Jack of coordination, abnormal galidataia, dizziness,

Demaidogic Solar demaidisch-photosensibiny,
Murrologic Malais and latigue it emoribanormal involuntary movements, lack of coordination, abnormal gait/ataxia, distribess,
paresthesias.

Gistramiteratin Consignation, annorais.

Contramitogic Visual distributances.

Popialar Reporting Meritandoses.

Cardiovascusirs. Congesse Ne hast halves cadioca arrhythmuss. SA node dysbunction.

Gastromisteranial Abdommal pain.

Popialar Reporting Reporting Reporting Meritandoses.

Other: Plusting, abnormal tatte and smell, edema, abnormal salvation, coagulation abnormalities.

Bius estin discoloration, seb., spontaneous ecolymnosis, alopeous, hypotension, and cardiac conduction abnormalities.

In surveys of laminos 5 000 palentes traded in one US. Studes and in published reports of treatment with aminodarione hydrochloride, the adverse reactions most frequently requiring discolorisation of annodatione included polimolary withintiates or filtrosis, pariogramal eminicated accludacing congressive heart failure, and electron of the emphyriodism.

Ones Popialar Consideration of the propriet requiring discolorisation, hyperthyriodism, and hypothyriodism.

OVERODSAGE
There have been a lew reported cases of annodations hydrochloride overdone in which 3 to 8 grains were taken. Theire were no deaths or permanent sequeble. Annual studies indicate that annodations hydrochloride has a high oral LDg₀ (>3.000 mg/bg). In addition to general supportive measures, the palent's cardace rhythm and blood pressure should be monitored, and if bridystartia ensures, a gradienterized appoint or a pacemaker may be used. Physiotension with inadequate bissue perfaction should be treated with positive inotropic and/or vasopressor agents. Neither annodations one its metabolite is dialyzable.

addresting agoinst for a pacemaker may be used. Hypotension with madequate bissue perfusion should be treated with positive inotropic androis vacagoresco agents. Netter amondation on its metabolite is delyrable.

DOSAGE AND ADMINISTRATION

BECAUSE OF THE UNIOUS PHARMACONIANETIC PROPERTIES. DIFFICUIT DOSING SCHEDULE. AND SEVERITY OF THE SIDE EFFECTS FOR THE STATE OF THE STATE OF THE SIDE OF THE STATE OF TH

	Leading Dose (Daily)	Adjustment and Maintenance Dose (Daily)	
Ventricular Arrhythmias	1 to 3 weeks	-1 month	usual maintenance
	800 to 1,600 mg	600 to 800 mg	400 mg

HOW SUPPLIED

Amodarone hydrochloide tablets are available in bottles of 50, 100 and 500 as follows.

200 mg, round, flat-laced, beveiled edge, yellow tablets debossed " a "over bisect, and "144" below the bisect, and plain on the other side.

Keep tightly closed

Store at controlled room temperature 15"-30"C (59"-86"F). Protect from light.

Disperse in a tight, light-resistant container as defined in the USP, with a child resistant closure as required.

Manufactured by: Eon Labs Manufacturing, Inc Laurelton, New York 11413

Final Printed Labels

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USUAL DOSAGE: See accompanying literature for complete prescribing information.

Store at controlled room temperature 15°-30°C (59°-86°F).

Protect from light.

This is a bulk package. Dispense in tight, light-resistant containers as defined in the USP, with a child-resistant closure, as required. required.

Issued 12/97

NDC 0185-0144-60

Amiodarone **Hydrochloride Tablets**

200 mg

Rx only 60 Tablets

Eon Labs

Each tablet contains:

Hydrochloride 200 mg

KEEP TIGHTLY CLOSED.

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.

Manufactured by: Eon Labs Manufacturing, Inc. Laurelton, NY 11413

DEC 23

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Lot No.:

USUAL DOSAGE: See accompanying literature for complete prescribing information.

Store at controlled room temperature 15°-30°C (59°-86°F).

Protect from light.

This is a bulk package. Dispense in tight, light-resistant containers as defined in the USP, with a child-resistant closure, as required.

Issued 12/97

NDC 0185-0144-01

Amiodarone Hydrochloride **Tablets**

200 mg

Rx only 100 Tablets

🗕 Eon Labs

Fach tablet contains: Amiodarone

Hydrochloride 200 mg

KEEP TIGHTLY CLOSED.

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.

Manufactured by: Eon Labs Manufacturing, Inc. Laurelton, NY 11413



Exp. Date Lot No.: USUAL DOSAGE: See accompanying literature for complete prescribing information.

Store at controlled room temperature 15°-30°C (59°-86°F).

Protect from light.

This is a bulk package. Dispense in tight, light-resistant containers as defined in the USP, with a child-resistant closure, as

Issued 12/97

NDC 0185-0144-05

Amiodarone Hydrochloride **Tablets**

200 mg

Rx only 500 Tablets

E Eon Labs

Each tablet contains: Amiodarone Hydrochloride 200 mg

KEÉP TIGHTLY CLOSED.

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.

Manufactured by: Eon Labs Manufacturing, Inc. Laurelton, NY 11413

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